BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 2500000.00

Name of Work: *Detailed Estimate for the work of Construction of CC roads and drains in Sanitary core B Sector in yelahanka new town in ward no-04 .*

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).	Cum.							
	levelling and lowering infront of Rangamandira		1	25.00	30.00	0.20	150.00		
							150.00	**86.92**	**13038.00**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17)	cum							
			Vide Item No. 1				**150.00**	**85.65**	**12847.00**
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2.50 X 4	12.80							
		80.80							
	Area Weightage @ 6%	4.85							
	Total	**85.65**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix **1:3:6 with OPC cement @** 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17	**Cum**							
	cc road		1	25.00	30.00	0.15	112.50		
							112.50		
	deduction rangamandhira		1	10.00	10.00	0.15	15.00		
							97.50	**5348.76**	**521504.00**
	Basic Rate	5046.00							
	Area Weightage @ 6%	302.76							
	Total	**5348.76**							
4	RCC Precast covering slab for drain (10cm thick)	**sqm**							
	missing covering slab		1	21.00	0.90		18.90		
							18.90	**2100.00**	**39690.00**
	Rate Approved by BBMP	**2100.00**							
5	KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 156/ Item No. 19.60/ PWD SR 2016-17	cum							
			1	25.00	30.00	0.20	150.00		
							150.00	**320.12**	**48018.00**
	Basic Rate	302.00							
	Area Weightage @ 6%	18.12							
	Total	**320.12**							

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRRB M400-6.1. **Construction of granular sub-base by providing close graded material, crushed stone** aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).	cum							
			1	25.00	30.00	0.15	112.50		
							112.50	1665.26	**187342.00**
	Basic Rate	1571.00							
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							
7	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum), , No. 174/ Item No. 22.6.1 SR 2016-17	**Cum**							
	for cc road		1	25.00	30.00	0.15	112.50		
	for existing cc road		1	70.00	3.50	0.15	36.75		
			2	30.00	3.00	0.15	27.00		
							176.25		
	deduction		1	10.00	10.00	0.15	15.00		
							161.25	6217.96	1002646.00

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	5866.00							
	Area Weightage @ 6%	351.96							
	Total	**6217.96**							
8	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. Page No 177 Item No 22.7 SR 2016-17	**Sqm**							
			1	25.00	30.00		750.00		
			1	70.00	3.50		245.00		
			2	30.00	3.00		180.00		
							1175.00	**95.40**	**112095.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
9	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement Item no 22.8.1 Page No 178 SR 2016-17	**Rmt**							
	for cc road		8	30.00			240.00		
			10	25.00			250.00		
			23	3.00			69.00		
			20	3.00			60.00		
							619.00	**121.90**	**75456.00**
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	**121.90**							

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	KSRB: 7.1 Providing and fixing in position collapsible steel stutters with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5 cms openings at 10 cms. c to c applying a priming coat of re lead paint, cost of materials, labour, HOM of machinery complete as per specifications. Size of gate 2.4mx1.4m Specification NO, KBS 7.7 / 7.12 Page No. 36/ Item No. 7.1/ PWD SR 2016-17	Sqm							
	Gate		2	9.00		6.00	108.00		
							108.00	4274.98	**461698.00**
	Basic Rate	4033.00							
	Area Weightage @ 6%	241.98							
	Total	**4274.98**							
11	Providing and fixing M.S Gate as per chief architect drawing using 50mm x 50mm 14 guage M.S hollow pipe frame work bent to ornamental shape as shown in the drawinf and 35mm x 6mm and 16mm x16 mm squre rods for verticle alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S flats for horizontal member and at the top cast iron spikes are provided at alternate verticle members as shown in the drawingetc., complete all the steel surface shold be thoroughly cleaned free of dust and painted with anti corrosive paint (shop paint) etc.,complete the work includes cost of all materil labour charges for all items of work, hire charges for welding, cutting and grindingequipment and electrically charges with lead and lift, loading and unloading charges complete as per specification(P.42&43 / I.N 7.37)	Sqm							

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	3.00		2.50	7.50	3110.04	
						2.60	7.50	3238.30	24287.00
	Basic Rate	3055.00	2934.00				7.80.		
	Area Weightage @ 6%	183.30	176.04						
	Total	3238.30	3110.04						
12	Miscellaneous charges								1379.00
								Total	2500000.00
(Rupees Twenty five Lakhs Only)									

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate.

Ramanegowda
Assistant Engineer

Assistant Executive Engineer
Project Division
Bangalore-64

Executive Engineer
Project Division
Yelahanka Zone Bangalore-64
9/X

Administrative Approval
Accorded For Rs. 25.00 lakhs
Head of A/C P-1878
EE R/O :53/17-18 Dt:09/10/2017
E.E. (Project)
9/X/17

Technical Sanction
Accorded For ....Rs.25.00 lakhs
Head of A/C.....P-1878
CER NO :.....239..... Dt:../10/10/17
TA CE (YNK)